



MRG5800

Part Number: MRG5800 COAX RF RG58 PVC

Product Description

COAX RF RG58 PVC

Product Specifications

Application

Application 1:	Coaxial communication cable based on MIL-C-17
----------------	---

Technical Specifications

Bend Radius

Min Bend Radius (W/o Pulling Strength):	25 mm
---	-------

CCB-Sub-Crush Resistance

Crush Resistance:	Max. 1% (load of 700N) N
-------------------	--------------------------

CCB-Sub-Material

Min Elongation at Breakof Jacket:	150 MPa
Min Tensile Strength of Jacket:	12.5 lbs

EMEA Standard

CENELEC Compliance : EN 50290-2-20 and EN 50289	CENELEC Compliance:	EN 50290-2-20 and EN 50289
--	---------------------	----------------------------

Environmental Characteristics

On anating Tarres December	-40 to +70 °C
Operating Temp Range:	-40 to +/0 C

Storage Temp Range:	-40 to +70 °C
Installation Temp Range:	-5 to +50 °C

General Electrical Parameters

Min Insulation Resistance:

History

Revision Date:	2008-06-05
Revision Number:	6

North American Standard

MIL Spec Rating:	MIL-C-17

Impedance:

Nominal Characteristic Impedance

50 mOhm/ft	2 Ohm	Min. 40 dB
9		10 0.0

Conductor DCR:

Max. Conductor DCR

40.6 Ohm/100m

Delay:

Nominal Velocity of Propagation (VP)

66 ns/100m

Voltage:

Voltage Rating

4000 dc / 2000 rms V

High Freq:

Element	Frequency [MHz]	Min. RL (Return Loss)
	5 - 30 MHz	20 dB
	30 - 470 MHz	20 dB
	470 - 1000 MHz	18 dB

In each frequency band, 3 peak values up to 4 dB lower are allowed

Capacitance:

Capacitance Tolerance	Nominal Capacitance
2 pF/m	100 pF/m

High Frequency (Nominal/Typical):

Element	Frequency (MHz)	Nom. Insertion Loss		
	10 MHz	4.7 db/100m		
	200 MHz	23 db/100m		
	400 MHz	34 db/100m		
	1000 MHz	60 db/100m		
Max. attenuation 10% higher				

Insulation:

Туре	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	Polyethylene	2.95 mm	0.15 mm

Outerjacket 1:

Element	Material	Nominal Diameter	Diameter +/- Tolerance	
	PVC	4.95 mm	0.2 mm	
According to EN 50290-2-20				

Conductor:

Stranding	Material	ConstructionNXD	Diameter +/- Tolerance
Stranded	Tinned Copper	19x0.18 mm	0.02 mm

Outershield 1:

Туре	Material	Coverage	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Braid	Tinned copper	93 %	3.5 mm	0.2 mm	4 %

Product Variants

Part Number	Color	Put-Up Type	Length
MRG5800.00500	BLACK	Reel	500 m
MRG5800.00B200	BLACK	Flat Box	200 m
MRG5800.01500	BLACK	Reel	500 m
MRG5800.02500	WHITE	Reel	500 m
MRG5800.10100	BLACK	Reel	100 m
MRG5800.12100	WHITE	Reel	100 m

© 2015 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor?s inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden?s knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC